

**LIQUID GALVANIC COATINGS FOR PROTECTION OF EMBEDDED METALS****Abstract**

A fluid galvanic coating for protecting corrosion-susceptible materials embedded within a substrate includes  
5 one or more metals selected from the group consisting of magnesium, zinc, and aluminum, one or more humectants, and one or more additives selected from the group consisting of conductive polymers, carbon fibers, and graphite.